

Test Report No.50087670 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50087670 APPENDIXD)

Contents

Spurious Emissions, TX Mode, 9-150 kHz	2
Spurious Emissions, TX Mode, 150 kHz - 30MHz.....	3
Spurious Emissions, TX Mode, 30MHz-1GHz.....	4
Spurious Emissions, TX Mode, 1GHz-18GHz.....	10
Mains conducted Emissions	16

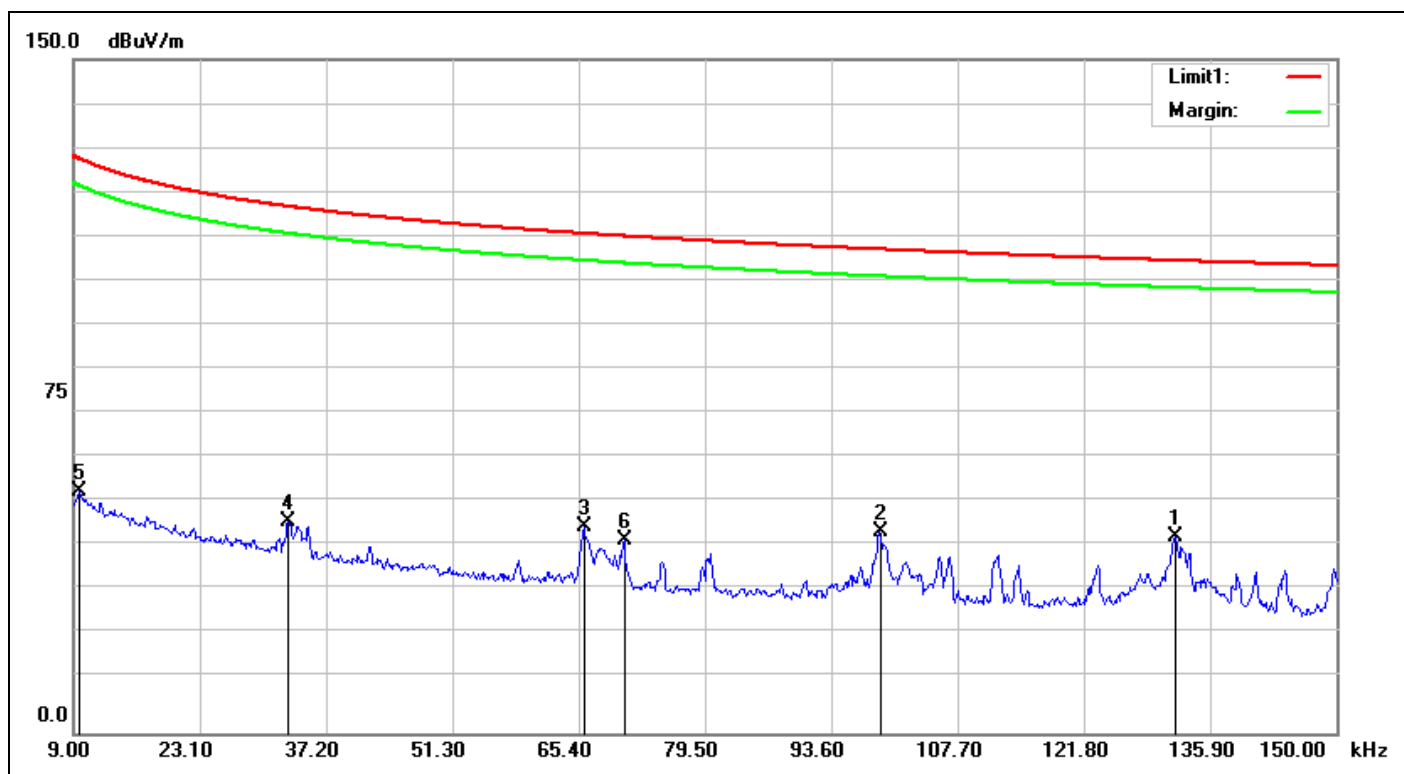
Spurious Emissions, TX Mode, 9-150 kHz



TUV Taiwan

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114061942_FCC	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/6/20 20:36:07
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	915.2-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1320	18.82	25.01	43.83	105.19	-61.36	QP	100	269	
2	0.0990	18.85	25.92	44.77	107.68	-62.91	QP	100	288	
3	0.0660	19.10	26.67	45.77	111.20	-65.43	QP	100	264	
4	0.0330	20.07	27.09	47.16	117.22	-70.06	QP	100	123	
5	0.0097	20.09	33.77	53.86	127.85	-73.99	QP	100	357	
6	0.0705	19.07	23.76	42.83	110.63	-67.80	QP	100	72	

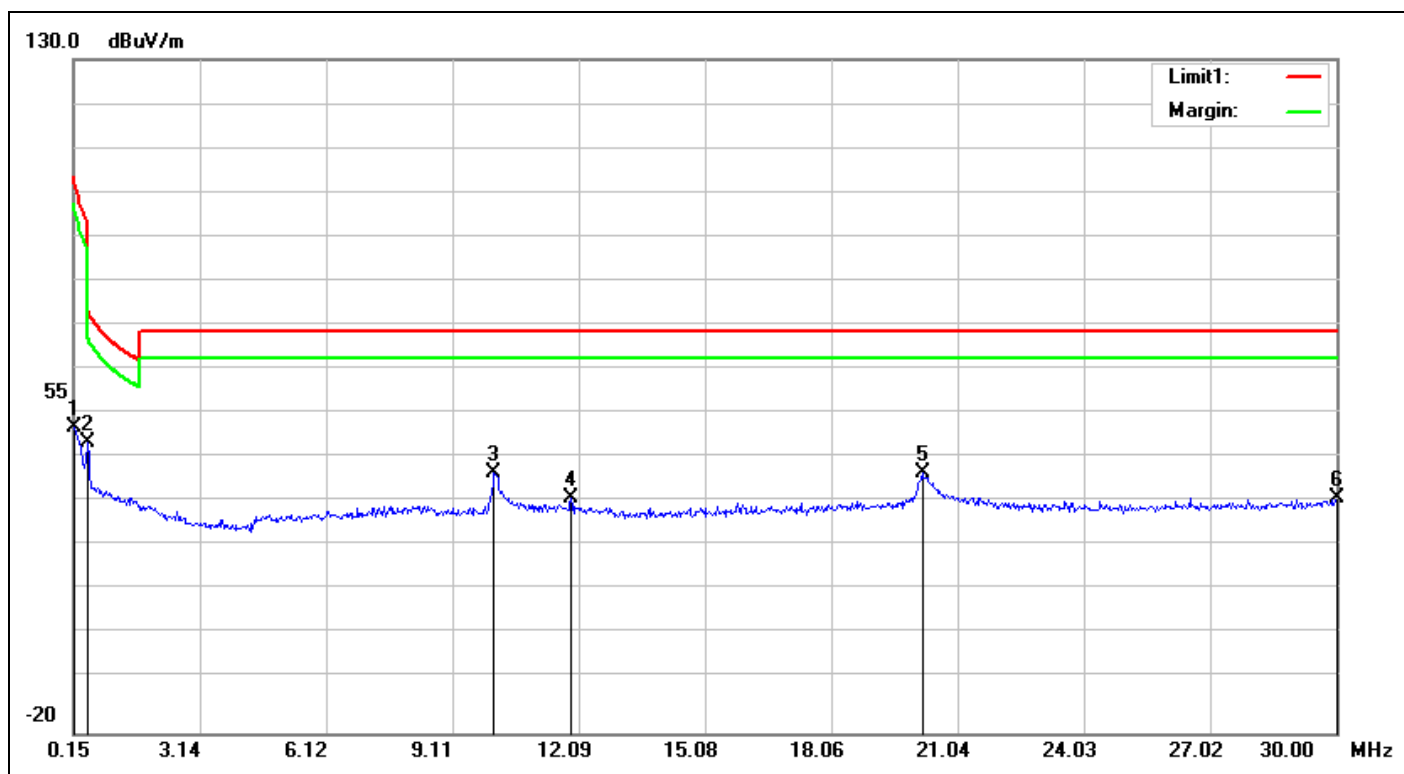
Spurious Emissions, TX Mode, 150 kHz - 30MHz



TUV Taiwan

11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114061942_FCC	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/6/20 20:38:12
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	915.2-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	18.77	29.12	47.89	102.50	-54.61	QP	100	52	
2	0.4784	18.53	26.24	44.77	94.01	-49.24	QP	100	271	
3	10.0901	20.40	17.51	37.91	69.50	-31.59	QP	100	72	
4	11.9109	20.61	11.56	32.17	69.50	-37.33	QP	100	338	
5	20.2092	21.56	16.27	37.83	69.50	-31.67	QP	100	108	
6	30.0000	22.28	10.02	32.30	40.00	-7.70	QP	100	133	

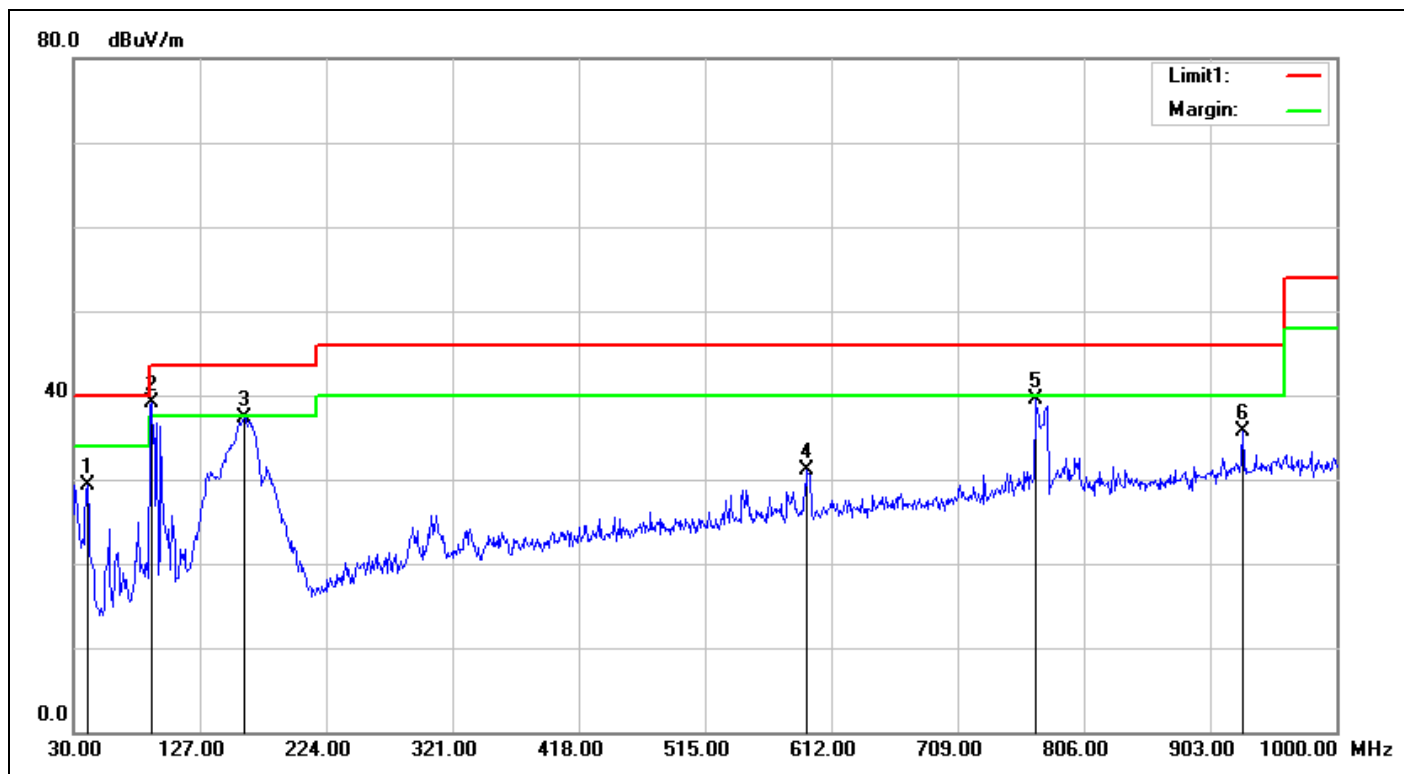
Spurious Emissions, TX Mode, 30MHz-1GHz



TUV Taiwan

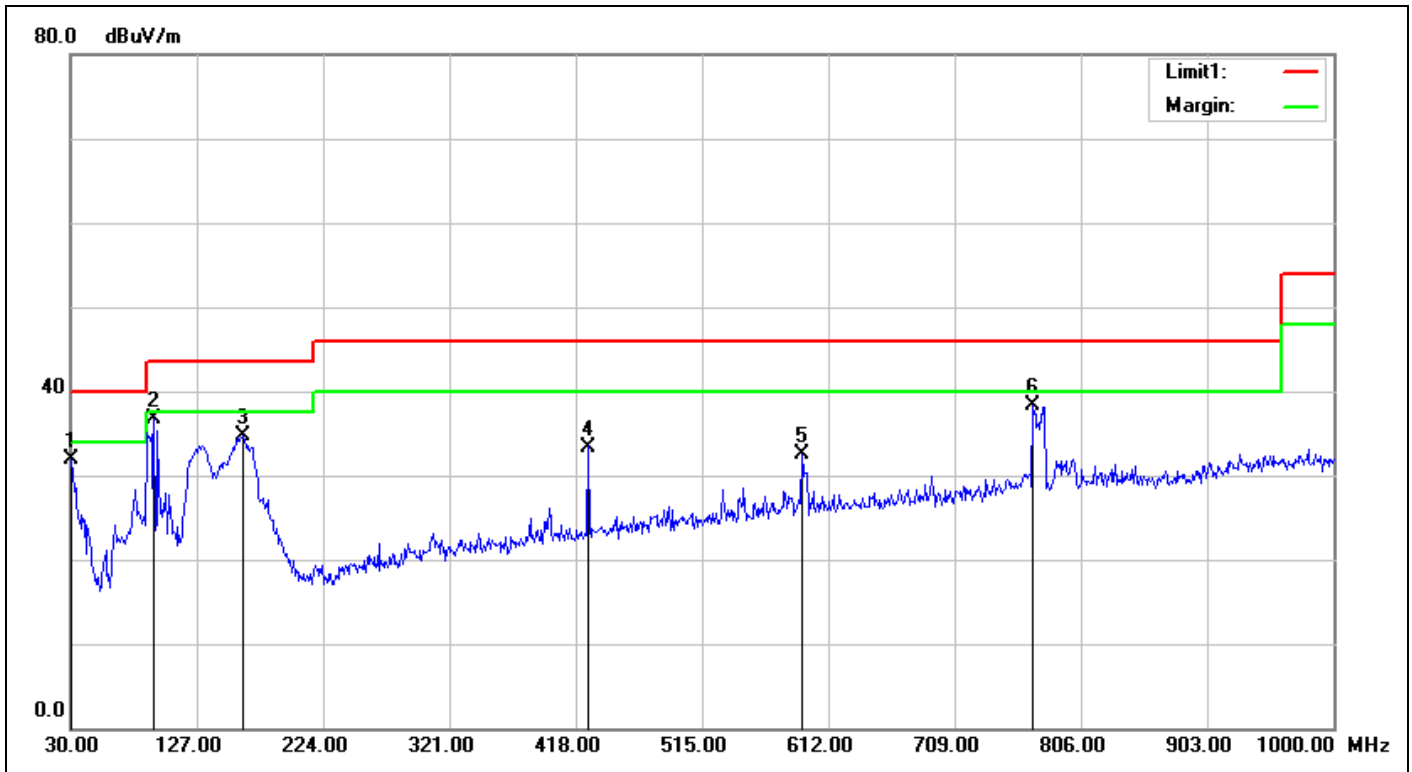
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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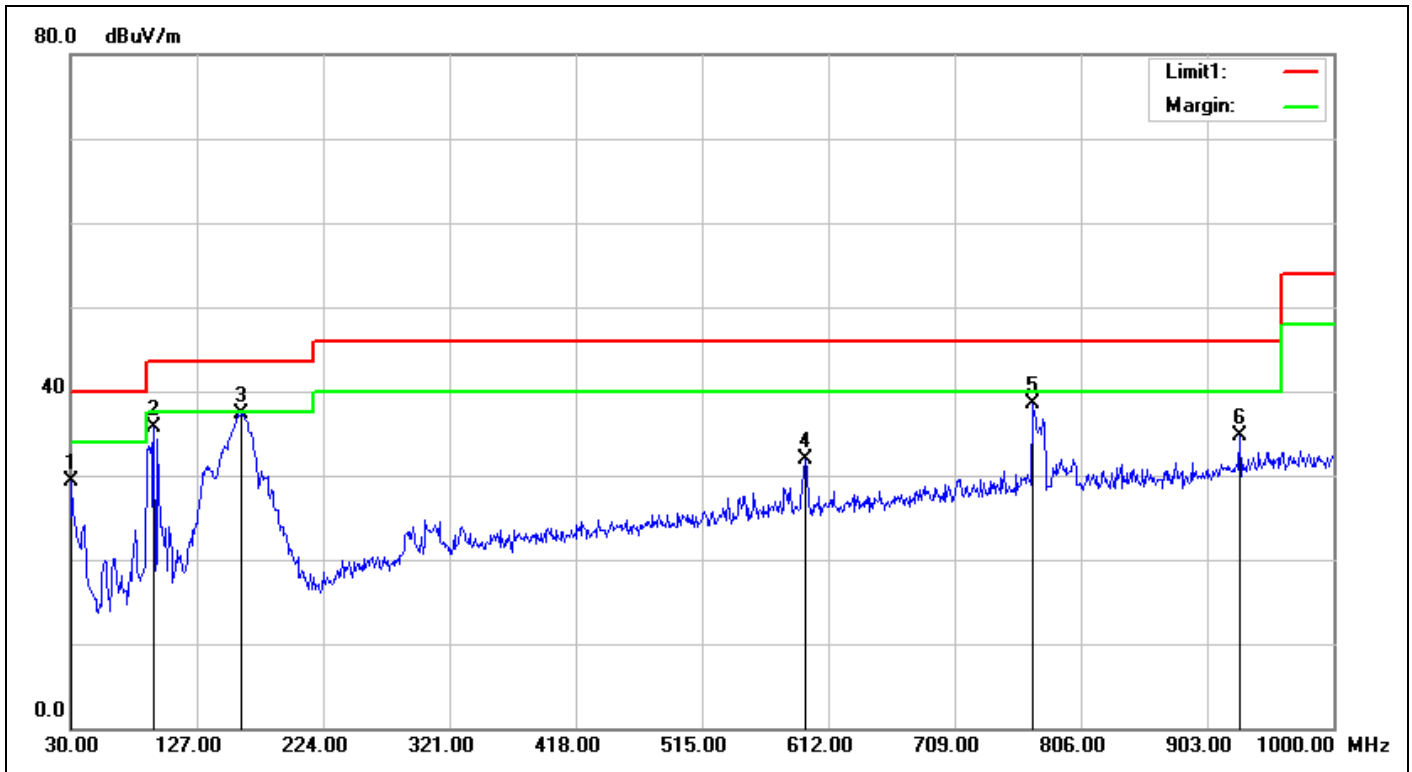
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Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/20 20:19:33
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	902.4-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	40.6700	-6.19	35.59	29.40	40.00	-10.60	QP	100	264	
2	90.1400	-10.84	50.03	39.19	43.50	-4.31	QP	100	0	
3	160.9500	-8.06	45.43	37.37	43.50	-6.13	QP	100	153	
4	593.5700	-0.09	31.14	31.05	46.00	-14.95	QP	100	73	
5	769.1400	2.53	36.89	39.42	46.00	-6.58	QP	100	147	
6	928.2200	4.84	30.81	35.65	46.00	-10.35	QP	100	109	



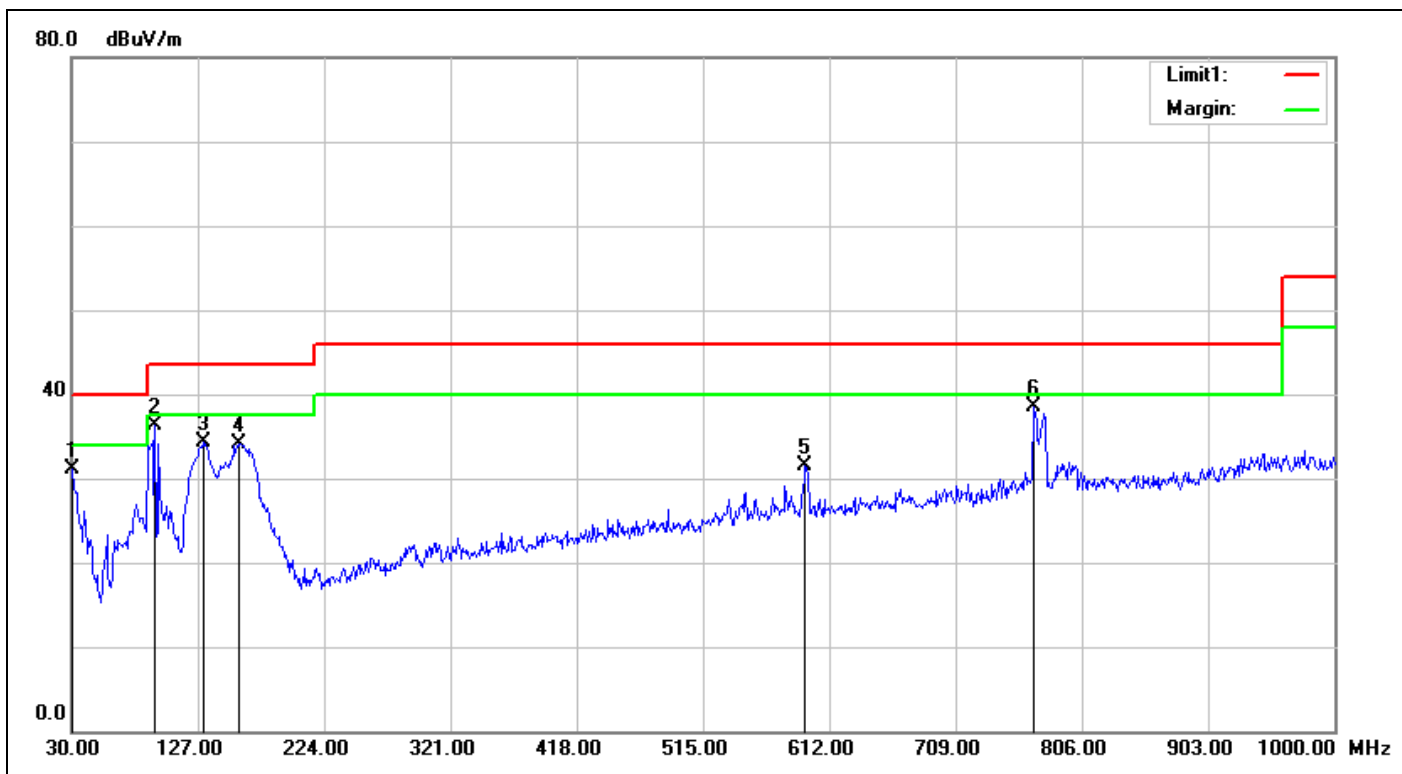
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Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/20 20:20:37
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	902.4-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.62	32.53	31.91	40.00	-8.09	QP	100	72	
2	94.0200	-10.30	47.09	36.79	43.50	-6.71	QP	100	174	
3	161.9200	-8.16	42.96	34.80	43.50	-8.70	QP	100	337	
4	427.7000	-2.29	35.69	33.40	46.00	-12.60	QP	100	213	
5	591.6300	-0.11	32.54	32.43	46.00	-13.57	QP	100	246	
6	769.1400	2.53	35.75	38.28	46.00	-7.72	QP	100	49	



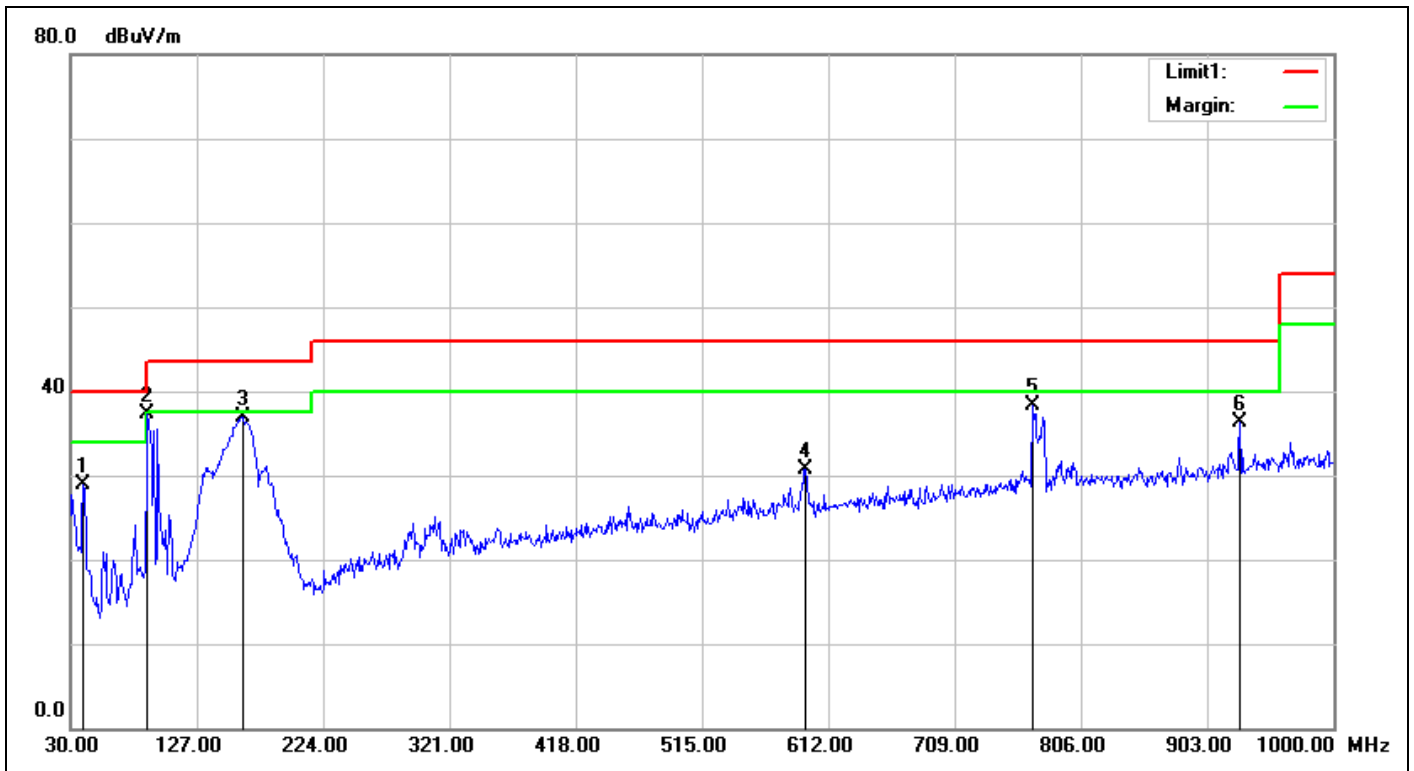
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Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/20 20:22:41
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%):	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	915.2-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.62	29.84	29.22	40.00	-10.78	QP	100	31	
2	94.0200	-10.30	46.05	35.75	43.50	-7.75	QP	100	225	
3	160.9500	-8.06	45.46	37.40	43.50	-6.10	QP	100	148	
4	594.5400	-0.08	32.06	31.98	46.00	-14.02	QP	100	289	
5	769.1400	2.53	35.98	38.51	46.00	-7.49	QP	100	175	
6	928.2200	4.84	29.92	34.76	46.00	-11.24	QP	100	120	



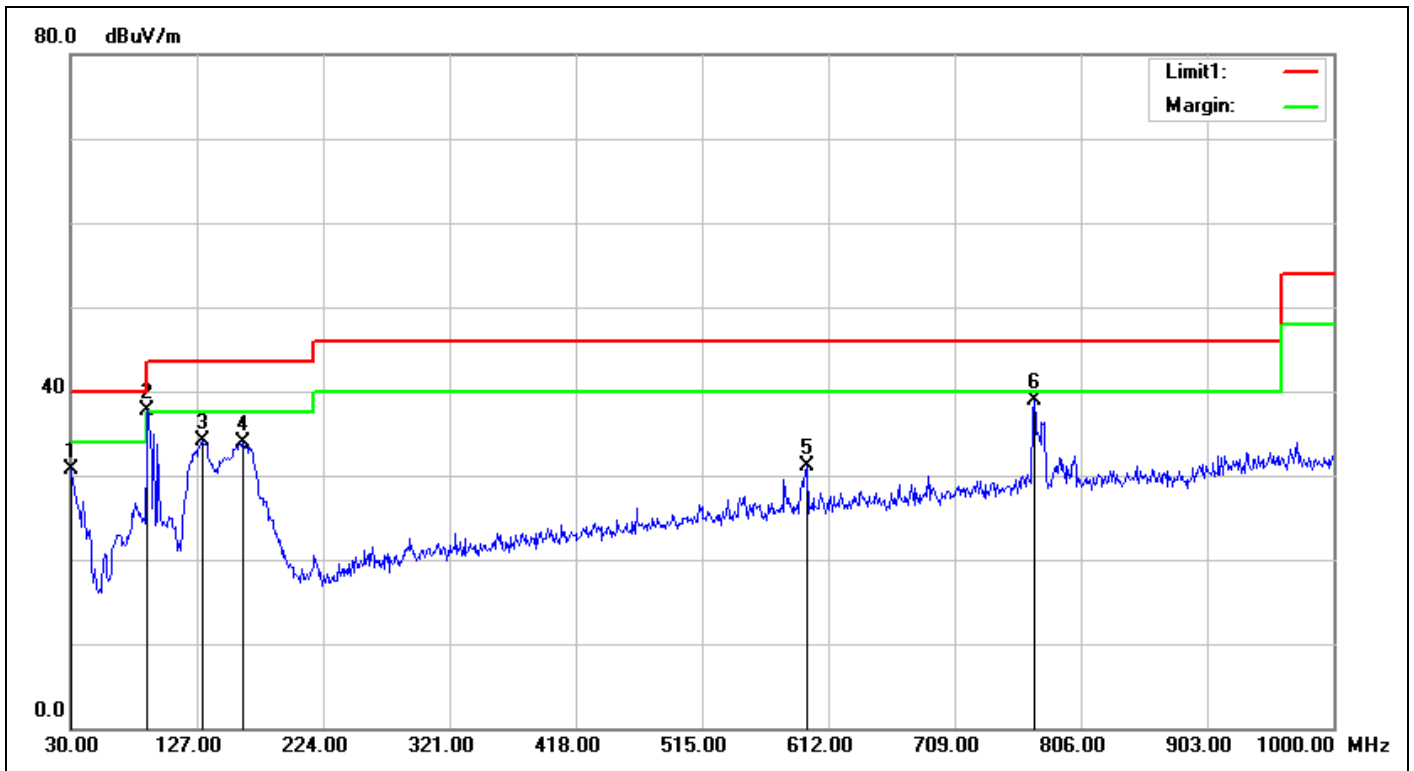
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Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/20 20:23:45
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	915.2-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.62	31.66	31.04	40.00	-8.96	QP	100	91	
2	94.0200	-10.30	46.65	36.35	43.50	-7.15	QP	100	199	
3	130.8800	-6.97	41.34	34.37	43.50	-9.13	QP	100	265	
4	159.0100	-7.91	41.99	34.08	43.50	-9.42	QP	100	299	
5	593.5700	-0.09	31.59	31.50	46.00	-14.50	QP	100	260	
6	769.1400	2.53	35.95	38.48	46.00	-7.52	QP	100	58	



Service No.:	114061942_FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/20 20:26:19
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%):	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	927.6-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	39.7000	-5.63	34.54	28.91	40.00	-11.09	QP	100	89	
2	89.1700	-10.94	48.16	37.22	43.50	-6.28	QP	100	0	
3	162.8899	-8.27	45.15	36.88	43.50	-6.62	QP	100	117	
4	594.5400	-0.08	30.77	30.69	46.00	-15.31	QP	100	58	
5	769.1400	2.53	35.87	38.40	46.00	-7.60	QP	100	50	
6	928.2200	4.84	31.55	36.39	46.00	-9.61	QP	100	114	



Service No.:	114061942_FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/20 20:27:23
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	927.6-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.07	30.69	30.62	40.00	-9.38	QP	100	213	
2	89.1700	-10.94	48.59	37.65	43.50	-5.85	QP	100	260	
3	130.8800	-6.97	40.99	34.02	43.50	-9.48	QP	100	277	
4	162.8900	-8.27	42.16	33.89	43.50	-9.61	QP	100	329	
5	595.5100	-0.06	31.11	31.05	46.00	-14.95	QP	100	202	
6	770.1100	2.54	36.29	38.83	46.00	-7.17	QP	100	174	

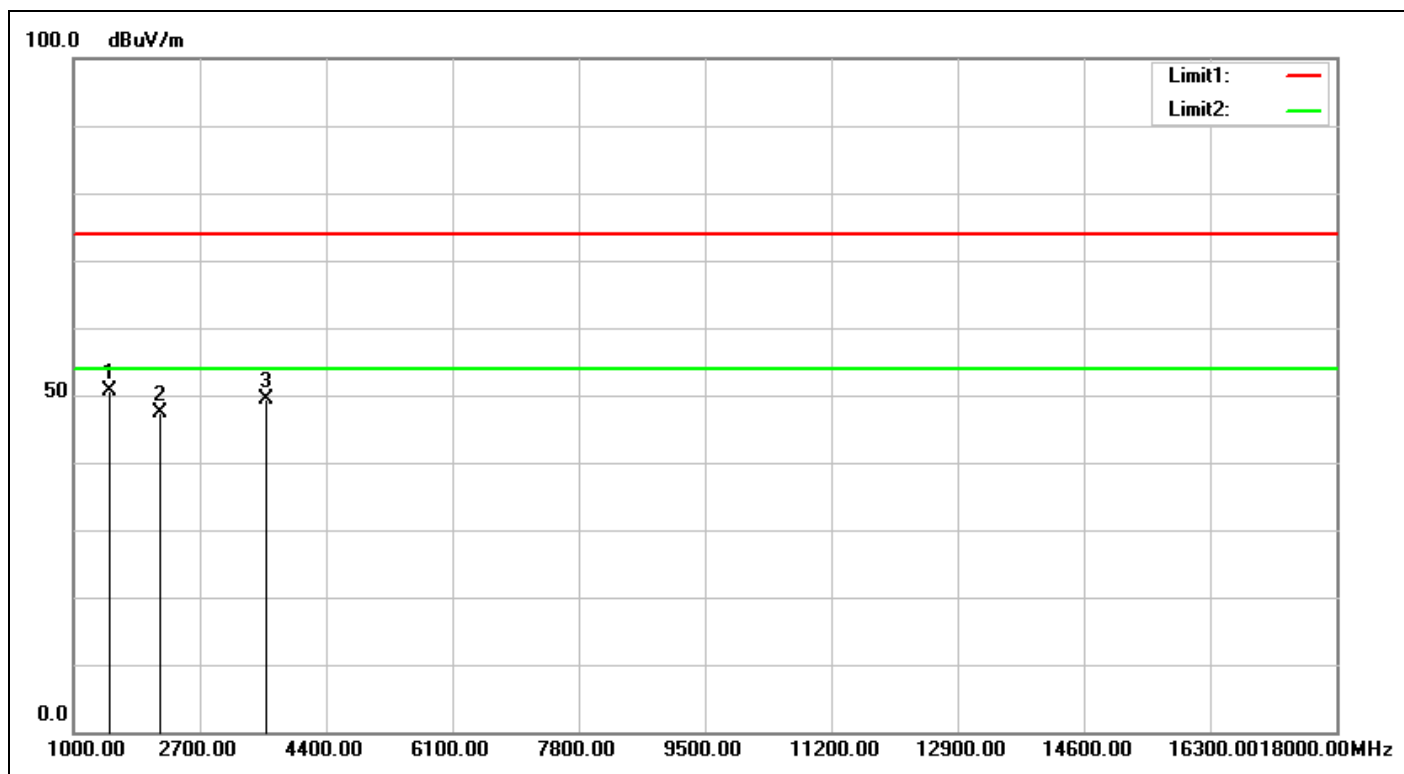
Spurious Emissions, TX Mode, 1GHz-18GHz



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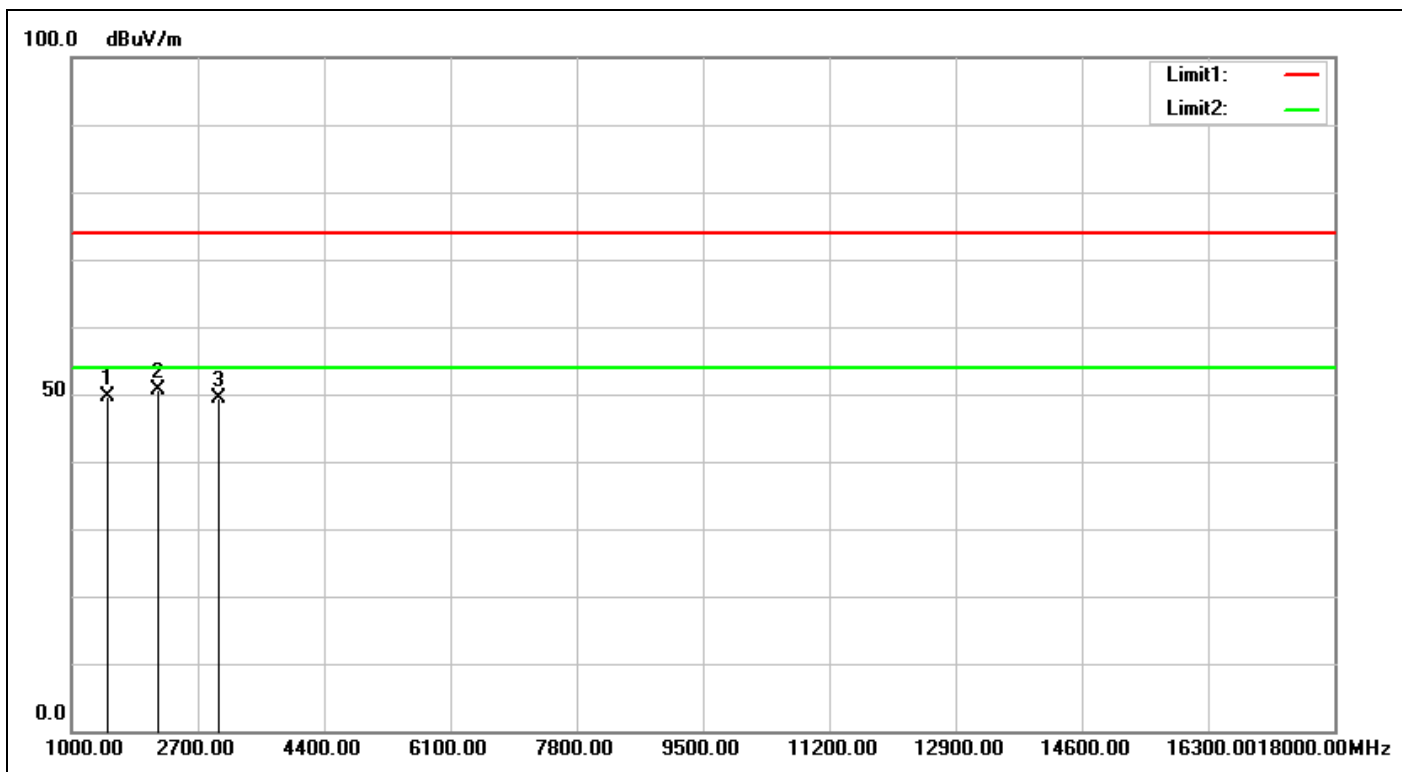
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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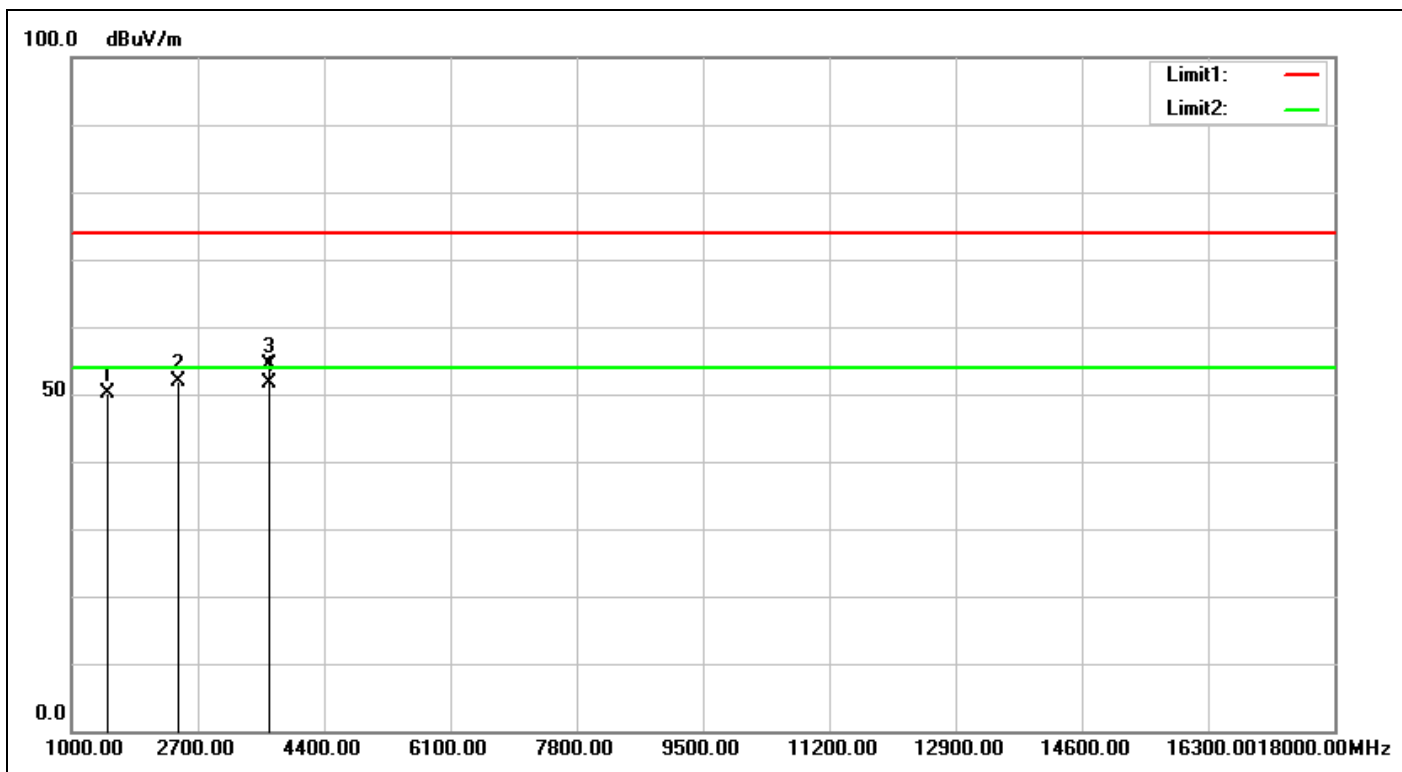
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/20 14:07:12
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	902.4-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1493.000	-11.36	61.99	50.63	74.00	-23.37	peak	100	110	
2	2156.000	-7.98	55.47	47.49	74.00	-26.51	peak	100	332	
3	3601.000	-6.41	55.74	49.33	74.00	-24.67	peak	100	46	



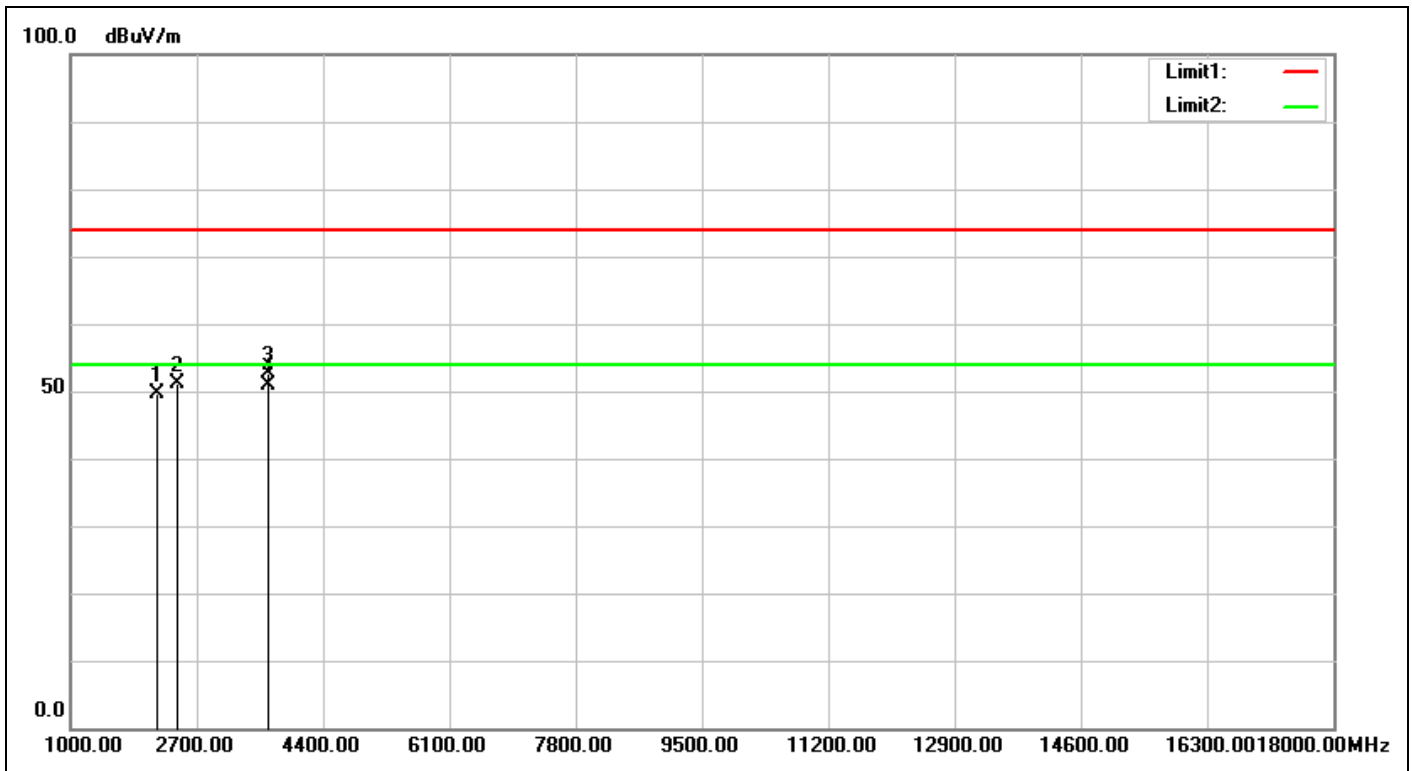
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/20 14:08:14
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	902.4-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1493.000	-11.36	60.92	49.56	74.00	-24.44	peak	100	70	
2	2156.000	-7.98	58.59	50.61	74.00	-23.39	peak	100	78	
3	2989.000	-6.97	56.23	49.26	74.00	-24.74	peak	100	272	



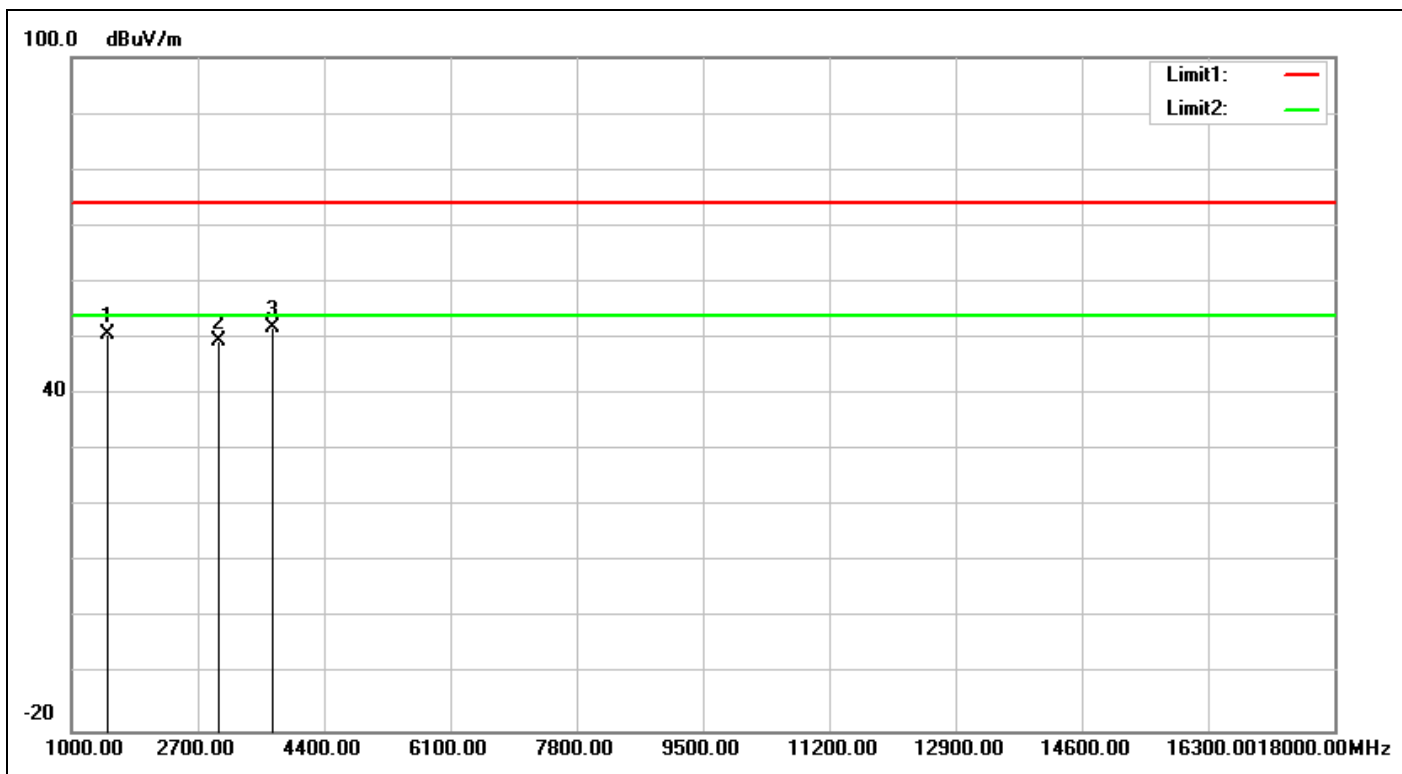
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/20 14:14:05
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%) :	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	915.2-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1493.000	-11.36	61.45	50.09	74.00	-23.91	peak	100	108	
2	2428.000	-7.94	59.76	51.82	74.00	-22.18	peak	100	343	
3	3652.000	-6.32	60.59	54.27	74.00	-19.73	peak	100	36	
4	3652.000	-6.32	58.01	51.69	54.00	-2.31	AVG	100	36	



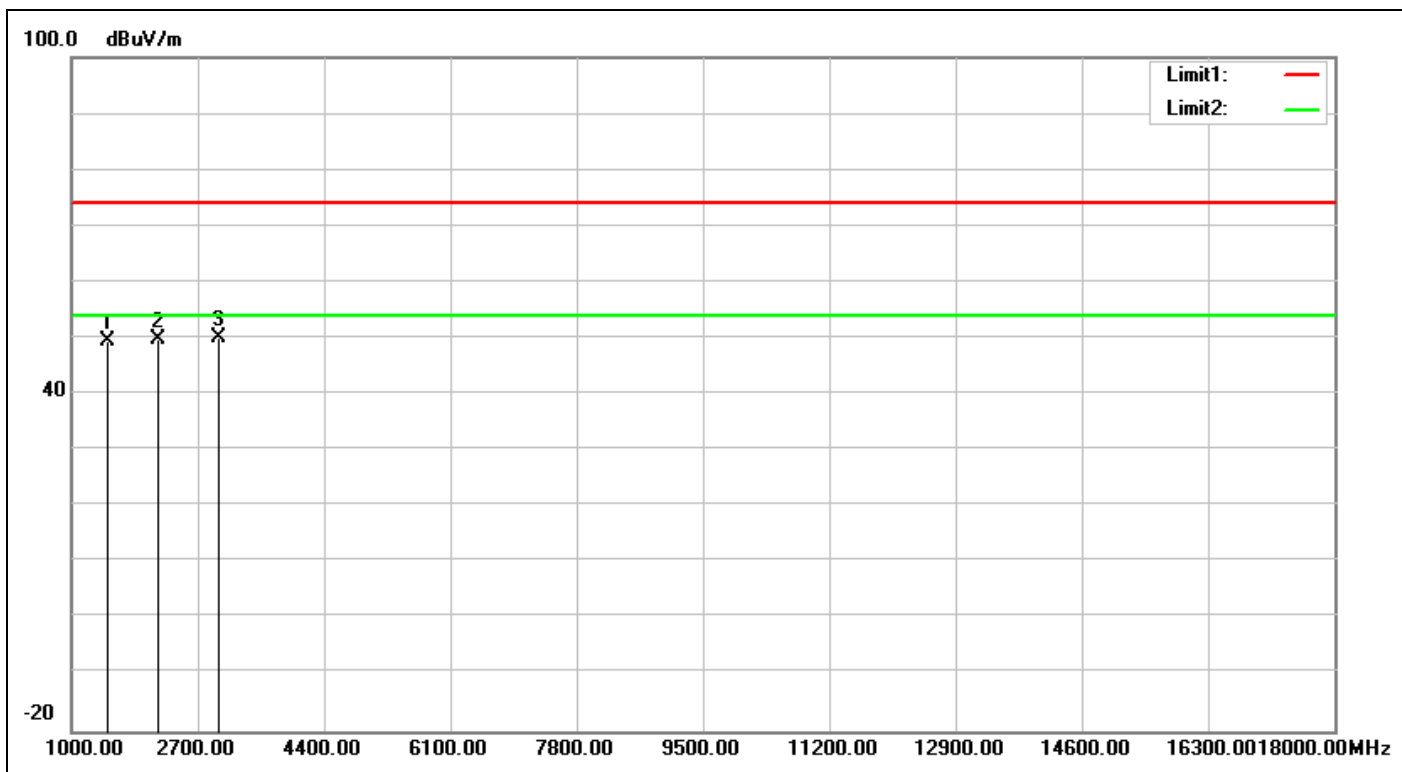
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/20 14:15:08
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	915.2-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2156.000	-7.98	57.60	49.62	74.00	-24.38	peak	100	81	
2	2428.000	-7.94	59.08	51.14	74.00	-22.86	peak	100	292	
3	3652.000	-6.32	59.07	52.75	74.00	-21.25	peak	100	14	
4	3652.000	-6.32	57.25	50.93	54.00	-3.07	AVG	100	14	



Service No.:	114061942_FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/6/20 20:08:57
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%):	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	927.6-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1493.000	-11.36	62.16	50.80	74.00	-23.20	peak	100	139	
2	2989.000	-6.97	56.40	49.43	74.00	-24.57	peak	100	61	
3	3703.000	-6.23	58.01	51.78	74.00	-22.22	peak	100	39	



Service No.:	114061942_FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/6/20 20:09:59
Applicant:	Nedap	Test Rating:	AC 120V/60Hz
Product:	Data collector for the SENSIT parking system	Temp.(°C)/Hum.(%)	22.5(°C)/55%
Model No.:	SENSIT GATEWAY US	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	927.6-TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1493.000	-11.36	60.79	49.43	74.00	-24.57	peak	100	82	
2	2156.000	-7.98	57.80	49.82	74.00	-24.18	peak	100	77	
3	2989.000	-6.97	57.00	50.03	74.00	-23.97	peak	100	82	

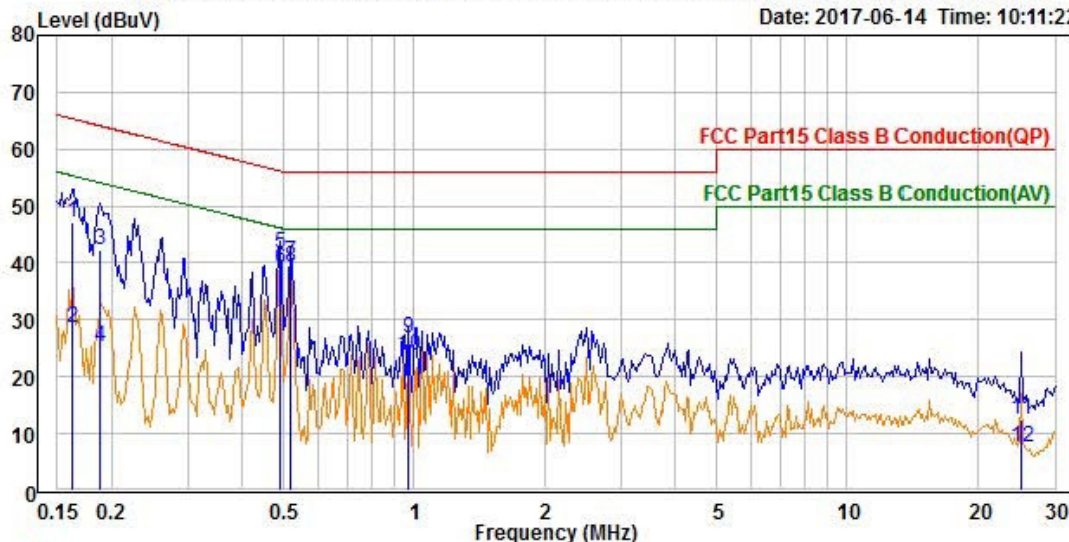
Mains conducted Emissions



TUV Taiwan
11F., No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105
Tel:+886-2172-7000 Fax:+886-2528-0018

File: C:\EMC\Report\2017\Nedap\114061942(XXX)\114061942(XXX)\114061942(XXX)_00033.EMI

Date: 2017-06-14 Time: 10:11:22



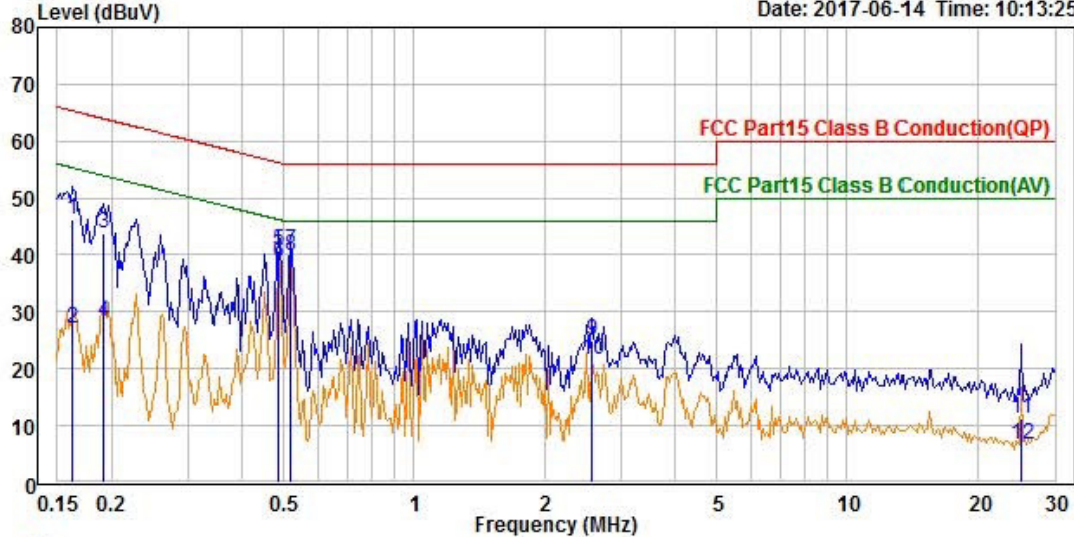
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Freeman Wang
Applicant : Nedap
Product : Data collector for the SENSIT parking system
Model No. : SENSIT GATEWAY US
Test Rating : 120Vac/60Hz
Tmp/Hum : 25 °C / 50 %
Memo : (a) Normal operation

	Freq	Level	Read	Factor	Limit	Over	Remark
	MHz	dBuV	Level		Line	Limit	
			dBuV	dB	dBuV	dB	
1	0.162	47.23	37.53	9.70	65.34	-18.11	QP
2	0.162	28.67	18.97	9.70	55.34	-26.67	Average
3	0.189	42.30	32.59	9.71	64.10	-21.80	QP
4	0.189	25.28	15.57	9.71	54.10	-28.82	Average
5	0.490	41.80	32.11	9.69	56.17	-14.37	QP
6	0.490	39.05	29.36	9.69	46.17	-7.12	Average
7	0.520	40.09	30.39	9.70	56.00	-15.91	QP
8	0.520	39.25	29.55	9.70	46.00	-6.75	Average
9	0.972	26.74	17.02	9.72	56.00	-29.26	QP
10	0.972	23.72	14.00	9.72	46.00	-22.28	Average
11	25.085	12.46	2.89	9.57	60.00	-47.54	QP
12	25.085	7.65	-1.92	9.57	50.00	-42.35	Average

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Date: 2017-06-14 Time: 10:13:25



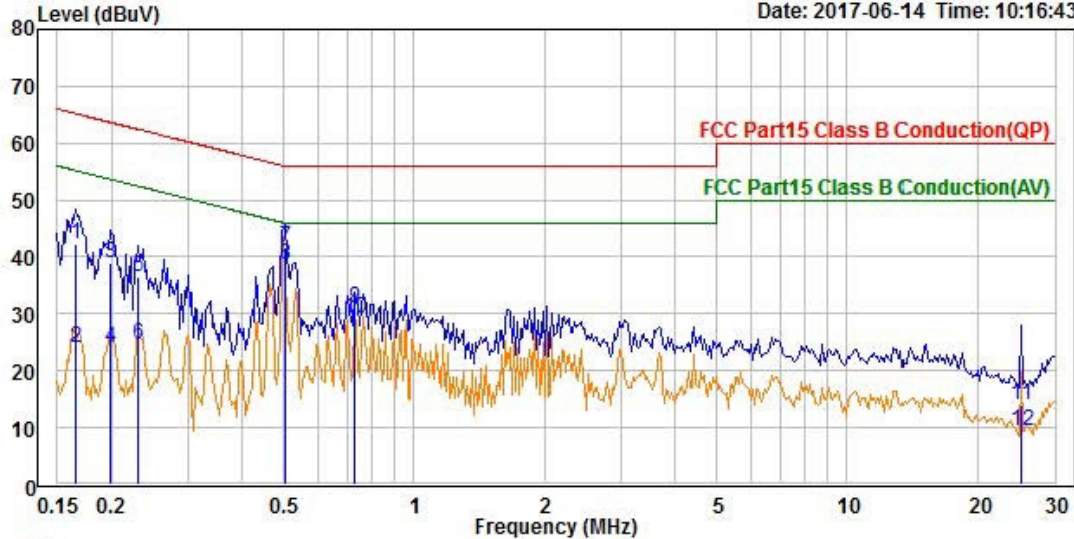
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Freeman Wang
Applicant : Nedap
Product : Data collector for the SENSIT parking system
Model No. : SENSIT GATEWAY US
Test Rating : 120Vac/60Hz
Tmp/Hum : 25 °C / 50 %
Memo : (a) Normal operation

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.162	46.22	36.59	9.63	65.34	-19.12	QP
2	0.162	26.92	17.29	9.63	55.34	-28.42	Average
3	0.192	43.80	34.17	9.63	63.94	-20.14	QP
4	0.192	28.17	18.54	9.63	53.94	-25.77	Average
5	0.485	40.74	31.09	9.65	56.26	-15.52	QP
6	0.485	38.48	28.83	9.65	46.26	-7.78	Average
7	0.520	40.77	31.12	9.65	56.00	-15.23	QP
8	0.520	39.76	30.11	9.65	46.00	-6.24	Average
9	2.575	24.86	15.15	9.71	56.00	-31.14	QP
10	2.575	21.61	11.90	9.71	46.00	-24.39	Average
11	25.085	11.24	1.54	9.70	60.00	-48.76	QP
12	25.085	6.57	-3.13	9.70	50.00	-43.43	Average

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Date: 2017-06-14 Time: 10:16:43



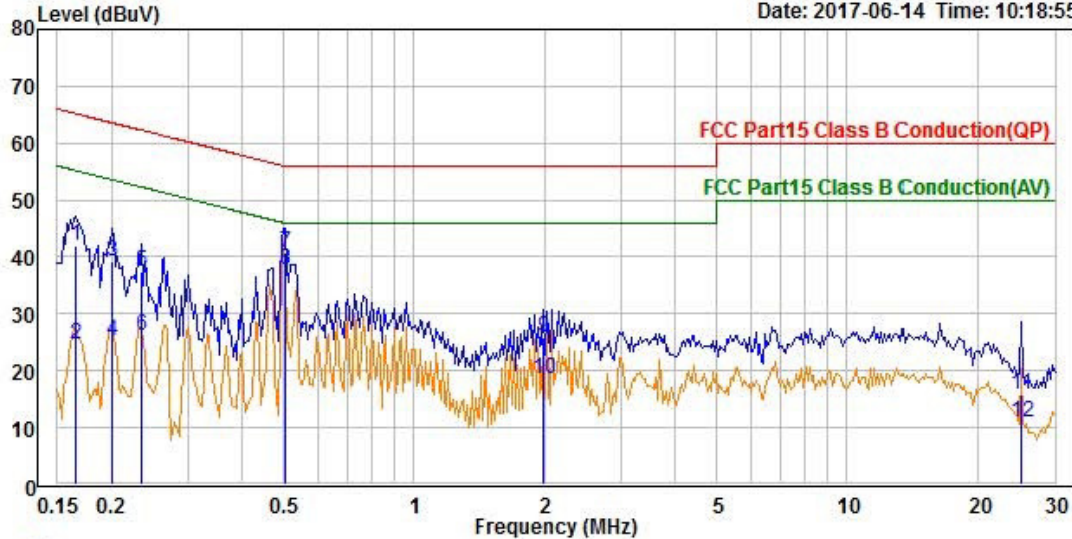
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Freeman Wang
Applicant : Nedap
Product : Data collector for the SENSIT parking system
Model No. : SENSIT GATEWAY US
Test Rating : 240Vac/60Hz
Tmp/Hum : 25 °C / 50 %
Memo : (a) Normal operation

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.166	42.34	32.71	9.63	65.17	-22.83	QP
2	0.166	24.05	14.42	9.63	55.17	-31.12	Average
3	0.198	38.93	29.30	9.63	63.69	-24.76	QP
4	0.198	23.95	14.32	9.63	53.69	-29.74	Average
5	0.230	36.60	26.97	9.63	62.45	-25.85	QP
6	0.230	24.64	15.01	9.63	52.45	-27.81	Average
7	0.504	41.72	32.07	9.65	56.00	-14.28	QP
8	0.504	38.75	29.10	9.65	46.00	-7.25	Average
9	0.729	30.97	21.32	9.65	56.00	-25.03	QP
10	0.729	29.07	19.42	9.65	46.00	-16.93	Average
11	25.085	13.95	4.25	9.70	60.00	-46.05	QP
12	25.085	9.28	-0.42	9.70	50.00	-40.72	Average

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Date: 2017-06-14 Time: 10:18:55



Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Freeman Wang
Applicant : Nedap
Product : Data collector for the SENSIT parking system
Model No. : SENSIT GATEWAY US
Test Rating : 240Vac/60Hz
Tmp/Hum : 25 °C / 50 %
Memo : (a) Normal operation

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.166	41.95	32.25	9.70	65.17	-23.22	QP
2	0.166	24.63	14.93	9.70	55.17	-30.54	Average
3	0.200	39.23	29.52	9.71	63.61	-24.38	QP
4	0.200	25.21	15.50	9.71	53.61	-28.40	Average
5	0.235	37.37	27.66	9.71	62.28	-24.91	QP
6	0.235	26.03	16.32	9.71	52.28	-26.25	Average
7	0.504	40.91	31.21	9.70	56.00	-15.09	QP
8	0.504	37.75	28.05	9.70	46.00	-8.25	Average
9	1.989	25.94	16.22	9.72	56.00	-30.06	QP
10	1.989	18.57	8.85	9.72	46.00	-27.43	Average
11	25.085	15.75	6.18	9.57	60.00	-44.25	QP
12	25.085	10.98	1.41	9.57	50.00	-39.02	Average